

Welcome to our Metropolitan Transportation Plan (MTP) 2045 Update briefing. During this presentation I will provide a brief summary about how we drafted our Dover/Kent County Metropolitan Planning Organization (D/KC MPO), Innovation 2045 MTP also referred to as the 2021 MTP meaning the year it gets adopted.

# Agenda D/KC MPO Innovation 2045 MTP Overview 2045 MTP (21 slides) Chapter I Chapter II Chapter III Chapter IV Chapter V Chapter VI MTP Summary Questions?

These are the points we will review during this presentation. I will begin with a brief summary regarding our Innovation 2045 MTP update as presented to this group back in December 2019; the development of each chapter within the Innovation 2045 MTP; and conclude with MTP summary and remaining steps for the document.

### MTP Overview (what is the MTP?)

- ► A long-range plan (20+-year planning horizon).
- Details goals and objectives for Kent County's transportation network.
- ▶ Identifies how our multi-modal transportation system (including transit, highway, bicycle, pedestrian, and accessible transportation) will meet the region's economic, transportation, development and sustainability goals.
- Must be <u>fiscally constrained</u> (sufficient funds (Federal, State, local, and private) to implement proposed transportation system improvements).
- ▶ Must include air conformity analysis if in non-attainment area.

As a reminder, the Innovation 2045 MTP is a 20-25 year long range transportation plan that identifies how the region intends to invest in the transportation system;

Provides goals, objectives and performance measures and targets on our transportation system;

Identifies how our transportation system will meet future economic, transportation, development, and sustainability goals;

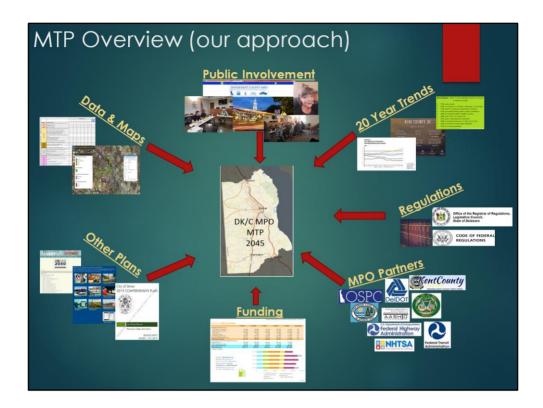
Must be fiscally constrained; and

Conform to the State Implementation Plan (SIP) for air quality by analyzing proposed regionally significant and non exempt road projects listed in the MTP against potential ozone produced by vehicles traveling on those new roads.

	D/KC MPO LO	ong Range Pl	ans	
MPO Long Range Transportation Plans	Date Adopted	Proposed Trans	sportation Projects	Contractor Support
1996 Long Range Transportation Plan- 2020- Getting From Here to There	September 25, 1996		45	Yes- JHK & Associates
2001 Long Range Transportation Plan- 2025- Getting From Here to There	July 5, 2001	71	27-Highway 31-Multi-Modal 13-Studies	No
2005 Long Range Transportation Plan- 2030- Moving Forward Together	May 11, 2005	105	45-Highway 34-Multi-Modal 26-Studies	No
2009 Regional Transportation Plan- 2030- <u>Moving Forward</u> <u>Together</u>	January 28, 2009	64	38-Highway 6-Transit 20-Planning Studies	Yes- Parsons Brinkerhoff Quade & Douglas; and Wordsworth Communications
2013 Metropolitan Transportation Plan- 2040 Update- <u>Moving Forward</u> Together	January 1, 2013	58	52-Highway 6-Transit	No
2017 Metropolitan Transportation Plan- <u>Vision</u> 2040	January 1, 2017	68	41-Roadway 5- Safety 15- Bike/Ped/Transit 7-Studies	No
2021 Metropolitan Transportation Plan- Innovation 2045	January 6, 2021	171	41-Roadway 45- Studies 31-Multi-modal 22-Bike 15-Pedestrian 3-Tranist 10- Frieght 4-Safety	No (DelDOT had WRA perform air analysis)

Before we could articulate where our MPO needs to go in the future, we had to understand where we had been and to do this, we reviewed previous MTPs. This slide shows each of the MTPs completed by our MPO from our first MTP in 1996 to our most recent MTP for 2021. Each of our previous MTPs had a **theme**, as shown in the first column starting with "Getting From Here To There" in 1996 to "Vision 2040" in 2017. You might remember that in December 2019, Helen Wiles sponsored a naming competition and the theme which had the most votes was, "Innovation 2045".

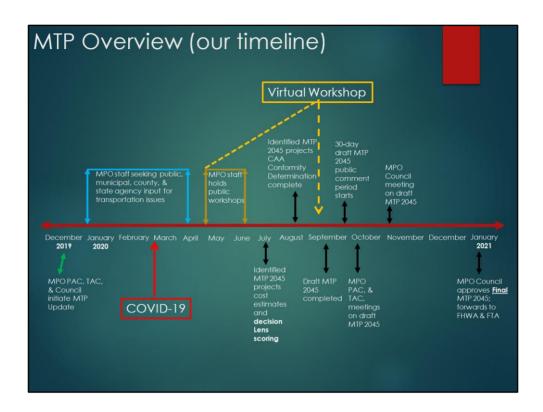
You will also note on this slide, that each MTP update has a corresponding color. As described later in Chapter II, these colors were used by Mike Ward to help create our interactive GIS site so viewers could see the previous road projects as related to previous MTPs.



You might remember this **one slide** presented to this body back in December 2019. The slide represents the various competing interests when it comes to drafting a Metropolitan Transportation Plan or MTP.

Our overall approach was to collect and analyze this information in a manner which is interesting to our "main" stake holders- **Kent County citizens**. To do this, we:

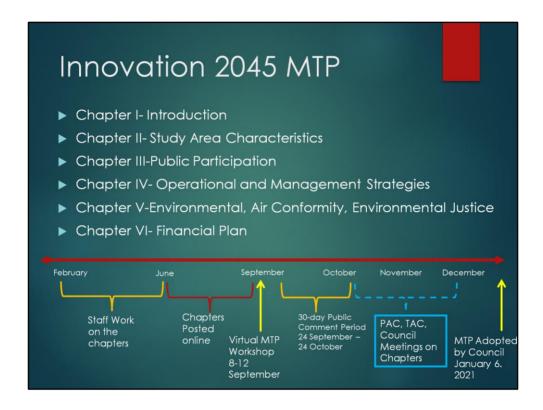
- 1. Leveraged our new Web Site to archive and share our MTP development from now until the time the MPO Council approves the MTP (January 2021);
- 2. Assigned Helen Wiles (MPO Public Outreach Manager) with weekly MTP updates on all social media platforms;
- Created interactive maps on our web site allowing 20-year trend analysis of data, regulation requirements, land use and other transportation long-range plans, funding constraints, and our MPO Partners transportation projects, studies, and policies; and
- Provided our Public Advisory Committee (PAC), Technical Advisory Committee (TAC), and MPO Council with continual updates which those members can share with their communities, organizations, and agencies.



As presented to this body back in December 2019 during the PAC/TAC/Council Joint Meeting, this has been a **12-month process**.

From January through April 2020, the staff worked with a variety of state and local agencies to include the general public to ascertain future transportation need. Then Covid-19 came to town at the beginning of March 2020 and challenged face to face coordination and data collection with "virtual" meetings and data collection. As a result, our original "in-person" public workshop scheduled in May and June was pushed to September 2020, over a six day "virtual" public workshop (more in Chapter III).

The final draft was advertised and published on September 24, 2020 for the required 30 day public comment period which ended on October 24, 2020. We received 10 comments during this public comment period which have been addressed and a final document will be published and considered during the joint PAC and TAC meeting schedule for this December 3, 2020. The D/KC MPO Council is scheduled to vote on the Innovation 2045 MTP on January 6, 2021.



The Innovation 2045 MTP consists of six chapters as seen on this slide. The timeline bar at the bottom of this slide shows the progression of the Innovation 2045 MTP. Staff worked on each chapter from February through June. As each draft chapter was completed in June, it was posted on our Innovation 2045 MTP website for public and agency review and comment through August. The chapters and innovative GIS mapping project was available from September 8th through the 12<sup>th</sup>. The MTP was updated with a few changes and advertised for the required 30-day public comment and review period from September 24th through October 24<sup>th</sup>. The final MTP will be considered by the MPO PAC and TAC on December 3, 2020 as an "action item". The MPO Council will consider and vote on adopting the Innovation 2045 MTP on January 6<sup>th</sup>, 2021.

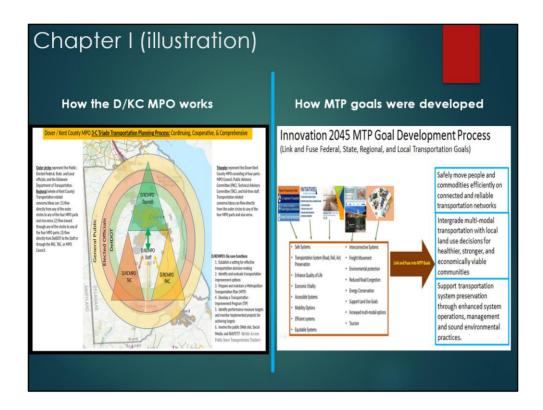
The following slides provide a brief summary on each of the six chapters.

### Chapter I (Introduction)

- Background Information
  - ▶ How the D/KC MPO works
  - ► Federal Transportation Planning
  - ▶ State Transportation Planning
  - ▶ Local Planning Transportation Planning
- Goals and Objectives
  - Safely move people and commodities efficiently on connected and reliable transportation networks;
  - ▶ Integrate multi-modal transportation with local land use decisions for healthier, stronger, and economically viable communities; and
  - Support transportation system preservation through enhanced system operations, management and sound environmental practices.
- Performance Measures

Chapter I provides a summary overview in 14 pages regarding the function of the D/KC MPO; when it was established and how it works. There is also background information regarding Federal Transportation Acts which since 1991, have shaped the D/KC MPO in addition to a Federal, State, and local transportation planning overview.

The second half of Chapter I is used to outline the Innovation 2045 MTP Goals, Objectives, and Performance Measures. In fact, the D/KC MPO staff published a video in April 2020 providing information to the public how Goals, Objectives, and Performance Measures were developed and requesting public input on the proposed three Goals and Objectives by May 31, 2020. The final draft Goals, Objectives, and Performance Measures were included in Chapter I and included in a summary video on Chapter I, published on June 3, 2020.



The images on this slide provide examples found in Chapter I. The image on the left shows how the Dover/ Kent County MPO works and the image on the right provides a snapshot how we included Transportation goals, Initiatives, and comprehensive plan goals which helped us develop our three Innovation 2045 MTP goals as shown on the right side of the image.

### Chapter II (Study Area Characteristics) General Area Characteristics Data Covid-19 Population Economic Activity Highway and Roadway Systems Freight System Public Transit System Bicycle and Pedestrian Systems

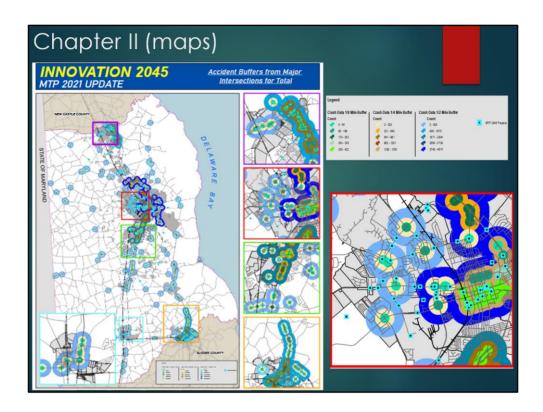
This Chapter is the longest at 23 pages and provides a summary overview on the general area characteristics in Kent County (the study area), Delaware; the type of data collection and analysis; and how Covid-19 impact some of our data numbers.

The other characteristics as seen on this slide (Population through Bicycle and Pedestrian Systems) include more detailed information regarding baseline figures shown as 2020 data through the long range planning horizon year of 2045. Additionally, a summary paragraph for each characteristic is provided highlighting potential changes.

The following slide provides and example.

		Dover/	Kent (	Count	у МРО	O Reg	ion Po	pulati	on da	ta by M	TP Year				
			1996	2001	2005	20	09 2	013	2017	2020	2045	2020-204 % Increas			
	Kent County		-	129,021	143,57				3,900	178,650	187,714	5%			
	New Castle			501,856	520,02	3 539	642 55		8,686	564,780	581,937	3%			
opulation	Sussex Cour	nty	?	157,459	175,40	9 187	,870 21	3,704 2	4,027	234,350	280,007	16%	107		
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		sus data in 5 y s data; 2009 i										01 used			
		Ke	ent Cou	nty Lev	el of S	ervice	over tin	ne in Ro	ad Mil	es					
Level of	Previous D/KC MPO MTP Year		LOS	LOS A LOS B			LOS C	LOS	D LOS E		LOS F	Total ro miles D LOS			
Service	1996								5.1	0	1.38	7.4	8		
LOS) 2001			1					_	0.3	0.56	1.9	11.7			
1200/		005	+					_	.98	6.36 7.63	1.32	37.5 27.7	_		
		013							0.09	9.43	1.35	49.8			
		017						63	2.63	35.3	17.63	115.	56		
	Source:	PDF LOS N	laps							_	_				
			Road mile	es (rural a	nd urban	) in Kent	County D	elaware b	Road Cl	assification			Daily Vehicles	Miles Traveled	
of road	D/KC MPO		Other Freeways	13233	cipal N	linor	Major	Minor			Total State Miles	Percent of KC Rds	KC Daily vehicle miles	Total State	Percent of KC R
niles by road	MTP Year 1996	Interstate 0	Expways	57.9		rterial 75.06	Collector	1.83	918.4	Total 1 1313.2	5,591.80	to State	1.179.315	DVMT Miles	to State
	2001	0	9.75		_	76.64	231.32	34.91	949.8			23%	3,809,012	23,466,117.00	16%
lassification	FOOT		10.13	_		111.98	182.66	86.69	992.8	_		24%	4,545,409	25,989,692.00	17%
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classification	The second second		-	37	7.00	115.00	178.00 184.19	90.00	1,070.0			24%	4,181,000 4,517,772.54	24,514,000 26,218,926.92	17%

These three images provide a small example of the illustrations found in Chapter II. Where applicable, staff color coded the previous MTP data years. As described in Chapter II, staff used MTP years to show past trends in lieu of typical 10 year trends (i.e. 2000, 2010, 2020, etc..)



While compiling data for Chapter II, information received for the MTP was sent to Mike Ward to begin creating a large GIS database which would eventually become the <a href="Interactive MTP GIS Website">Interactive MTP GIS Website</a> discussed later in Chapter VI. The image on the slide represents accident data in Kent County from 2013 to 2017 in terms of our Innovation 2045 MTP proposed projects.

### Chapter III (Public Participation) Why Public Outreach is Important Background on MPO Public Outreach Initiative Using Public Outreach in Development of the Plan Surveys and Polls Surveys Survey results The Money Game **Public Workshops News Coverage** Advertisina Social Media Campaign Prioritization Working Group Comments and Prioritization General Comments at Meetings Comprehensive Plans Story/Interactive Maps Getting At Risk and Underserved Population Involved

Chapter III is one of the shortest chapters with 7 pages but do not let 7 pages judge the level of effort put into public participation, especially by our Public Outreach Manager, Helen Wiles. Although this chapter in the MTP describes each one of the 20 listed actions on this slide, Helen leveraged her social media skills to reach out to the Kent County public, from Facebook parties to multiple videos and interviews.



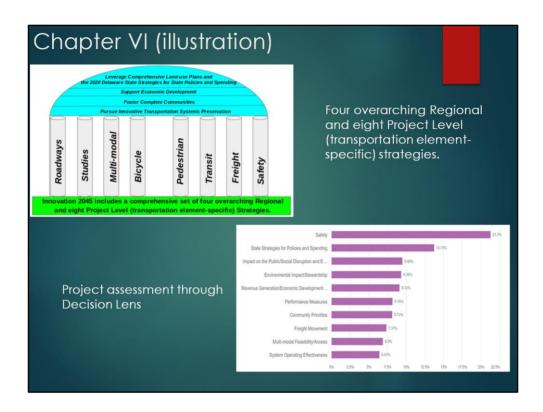
This slide is a small representation of just a few of the many outreach efforts Helen made for the Innovation 2045 MTP. In addition to videos she produced summarizing each of our six chapters, she also included instructions in Spanish, allowing Spanish speaking public members to participate in the MTP virtual workshop. One interesting trend Helen found was that there were 19 individuals who attend the 2017 MTP public workshop as compared to 75 visitors to the 2021 MTP virtual public workshop. Unless someone can prove otherwise, I will say that the MTP outreach efforts surpassed any previous MTP outreach efforts mostly due to Helens efforts.

Next slide please.

### Chapter VI (Operational and Management Strategies) ▶ D/KC MPO Overarching D/KC MPO Project level Strategies Strategies ▶ Partner Comprehensive ▶ Roadways Plans and State Strateaies Studies ► Support Economic ▶ Multi-modal Development ▶ Bicycle ▶ Foster Complete Pedestrian Communities ▶ Transit ▶ Innovative Transportation System Preservation Freight Safety

Chapter IV provides the strategic approach by describing our strategies in 12 pages. The four strategies and eight project level strategies listed on this slide are all linked through the D/KC MPO Decision Lens Project Priority Process, support of our Federal and State partners strategies, and integration with our Local partners' economic and land-use policies.

Specific to Innovation 2045, Decision Lens was used to evaluate and score 171 transportation projects categorized in any one of the eight categories (also referred to as Project Level (Transportation Element) Strategies) to establish funding priorities. Elements of the four overarching regional strategies, Federal and State partners strategies, and integration with our Local partners' economic and land-use policies are all linked through the D/KC MPO Decision Lens Project Priority Process when considering funding priority for any transportation project within the eight project categories (Transportation Elements).

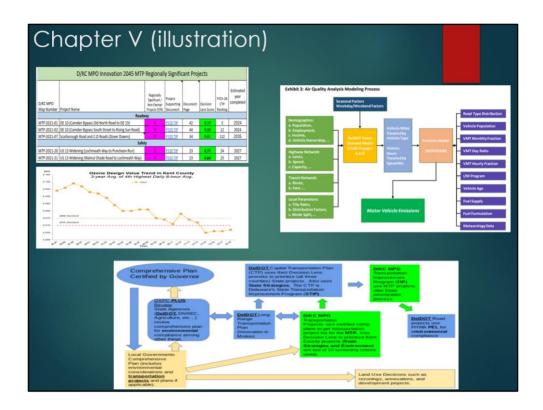


The image on the top left illustrates our four overarching regional strategies and how they link to our eight project level strategies. These four overarching strategies are specifically link through the Decision Lens **ten screening criteria** process when considering any one of the eight transportation projects (also known as transportation elements in this MTP). This process ensures that even as an individual transportation project in any one of the eight categories or elements, that individual project supports the overarching regional strategies. Hence, the eight transportation elements become project level strategies in of themselves.

### Chapter V (Environmental, Air Quality, Environmental Justice)

- ▶ Background
- ► Environmental Analysis
- Air Quality
- ▶ Innovation 2045 MTP Conformity Determination
- Environmental Justice
- ▶ Mitigation Efforts

The D/KC MPO leverages Long Range and Comprehensive Planning efforts by our Federal, State, Regional, and Local MPO partners (briefly described in Chapters I and IV). These long range and comprehensive planning documents address environmental impacts resulting from future growth scenarios. While land-use decisions are decided at the local county, and municipal levels, transportation infrastructure construction, maintenance, and service is mostly a state responsibility. Local land-use decisions rely on future growth scenarios described in comprehensive plans that are certified by the State through the Office of State Planning Coordination (OSPC). The plans also identify potential environmental impacts that may occur from future growth, the annexation of land, and proposed long range development, economic, or transportation projects.



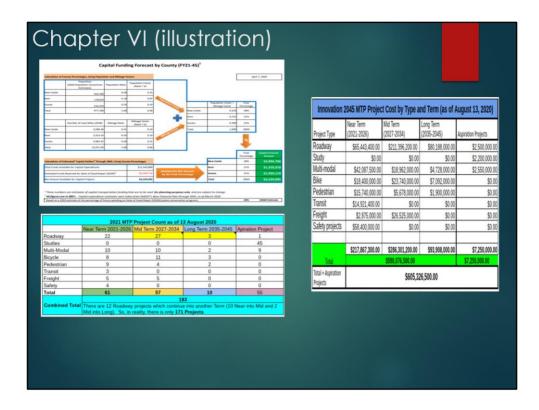
This slide show some examples of images found in chapter V. The top three images are related to the Air Conformity process. **All baselines and (clean air act) budget tests pass, which <u>demonstrates conformity</u>.** 

The image on the bottom of the slide shows how our local MPO partners comprehensive plans and the transportation projects listed therein, go through the Office of State Planning Coordination (OSPC) Preliminary Land Use Service (PLUS) where state agencies such as DNREC can review the plans for environmental impacts.

## Chapter VI (Financial Plan) ▶ Project Selection and Decision Lens Analysis ▶ Financial Reasonable/Constrained Projects ▶ Unfunded Aspiration Projects

Chapter VI is our financial plan. Projects identified and listed in the Innovation 2045 MTP came from the previous D/KC MPO MTP (Vision 2040), D/KC MPO Partners Comprehensive Plans, and project recommendations from Federal, State, Regional, and Local governmental agencies. The compiled projects listed in the MTP are also broken out into Near-term (2021-2026), Mid-term (2027-2034), Long-term (2035-2045), as well as Aspiration project categories.

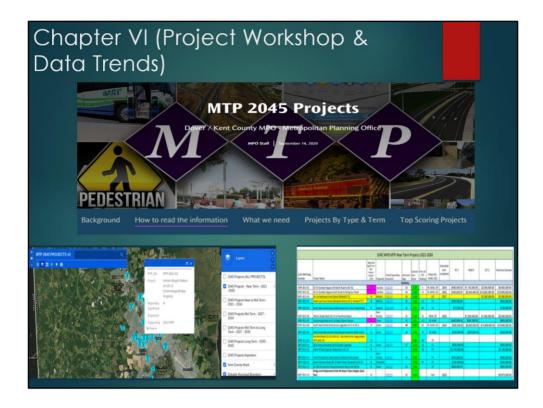
Lastly, Federal regulations require transportation improvement projects to be included in a metropolitan transportation plan (MTP) and that these projects also be considered "financially responsible." This phrase means that all of the listed Innovation 2045 MTP transportation improvement projects cannot exceed the amount of reasonably expected revenues projected from identified federal, state, and local funding sources as the next slide will show.



The top left image showing DelDOT projects of **\$1.3 Billion dollars** for Capitol Transportation Projects in Kent County from 2020 through 2045. For Innovation 2045 MTP to be considered <u>financially reasonable</u>, the proposed projects listed in the plan can not exceed **1.3 billion**.

The image in the lower left shows the number of proposed projects in our eight categories planned from 2021 through 2045. The aspiration projects are those not specifically earmarked for the Near, Mid, or Long Term funding projects, however, they may be considered over time should additional cost estimated be produced.

The last image on the right side shows the total estimated dollar amount in each of the eight project categories. The total estimated cost projections from 2021 through 2045 is **\$605 million dollars** which is less than the projected DelDOT Capital estimate of **\$1.3 Billion**, thereofore, our MTP is considered financially reasonable.



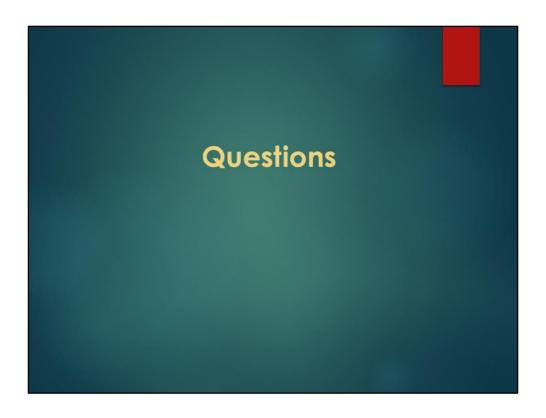
Mike Ward designed and developed an interactive GIS maps for the MTP. This interactive site was the primary tool used in our September virtual workshop. This interactive site transforms was typically a listing of future transportation projects on a spreadsheet within a Metropolitan Transportation Plan (MTP), into a Geographical Information System (GIS) display of each proposed project and more importantly, the project's location. Although the actual process regarding how these transportation projects were included into the Innovation 2045 MTP is described in Chapter VI (<a href="https://doverkentmpo.delaware.gov/innovation-2045/">https://doverkentmpo.delaware.gov/innovation-2045/</a>), this site provides a summary of the process.

### Innovation 2045 MTP Summary

- ▶ Linked Goals, Objectives, and Performance Measures
- ▶ D/KC MPO Partner Comprehensive Plan (Land Use) Centric
- OSPC State Strategies and Decision Lens Leveraged in MTP Strategies
- Continued and technology based public outreach efforts
- Implementation of GIS interactive maps for the public
- ► Transparent process with draft documents, videos, maps, and information continually available on www.innovation2045.com

In summary, the process has taken a year and is expected to be completed when the MPO Council approved the Innovation 2045 MTP on January 6, 2021. Staff attempted to ensure our MTP complimented our Federal, State, Regional, and Local MPO Partners by fusing their goals and objectives into ours. We wanted our local MPO partners to feel included in the transportation process by including their comprehensive plan transportation projects in our MTP project list. We utilize the 2020 State Strategies in our Decision Lens project selection process which is the backbone of our MTP strategy. Jim conducted workshops this past February and March updating our Decision Lens project selection process which like the State Strategies, is a major aspect of our MTP Strategy. Helen has continually pushed new out reach technology such as videos, survey, and social media programs in her efforts to include all Kent County residents in this process. Mike continually refined our MTP interactive mapping systems by building new map layers as new transportation planning data was found. Last but not least, Cathy ensured our process was transparent ensuring MTP information was available to the public when requested, and actively uploaded onto our web page.

Going forward, the final MTP Draft will be voted on during the PAC/TAC joint meeting on December 3, 2020 PAC and TAC and pending their recommendations, forward the final document to the MPO Council on January 6, 2021 for adoption.



That concludes my MTP update presentation. Are there any questions?

Thank you.